**Pearson Product-Moment Correlation Coefficient and Partial Correlation Analysis Individual Assignment**

Opening the **data set 2** (located in the e-classroom, Class) answer the following questions:

1. What was the avergae age of the participants? (2 marks)

2. What percentage of the sample were males and females? (2 marks)

3. Conduct all Test Assumptions for a Pearson Product-Moment Correlation Coefficient Analysis and Partial Correlation Analysis involving the variables: Openness (Topen), Optimism (Topt), and Life Satisfaction (Tlife).

a. Were all test assumptions met? Why, why not? Please provide complete interpretations for each of the test assumptions required. If any assumptions were not met in this case, will this be an issue for running a Pearson’s Product Moment correlation or Partial Correlation Analysis? Why or why not? (30 marks).

4. Conduct a Pearson’s Product Moment Correlation Coefficient analysis answering the following questions:

* Do persons with higher levels of openness possess higher levels of life satisfaction than persons who possess lower levels of openness?
* Do persons with higher levels of openness possess higher levels of optimism than persons who possess lower levels of openness?
* Do persons with higher levels of optimism possess higher levels of life satisfaction than persons who possess lower levels of optimism?

**Please ensure to include your interpretations of all relevant statistical information requires in the APA presentation of answering the above questions (including the correlation table in APA format)**(21 marks)

**Please ensure to include your interpretations of all relevant statistical information requires in the APA presentation of answering the above questions.**

6. Provide a copy of your syntax in the Appendices of your document to show your step by step analysis procedures. (26 marks)

All answers must be presented in a word document using APA format.